

MAIL STOP ISSUE FEE

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: A.S. Hoffman et al. Attorney Docket No.: UWOTL118949
Application No.: 09/226,044 Group Art Unit: 1615
Filed: January 5, 1999 Examiner: G.S. Kishore
Title: ENHANCED TRANSPORT USING MEMBRANE DISRUPTIVE AGENTS
REQUEST FOR EXAMINER-INITIALED INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101

April 30, 2004

TO THE COMMISSIONER FOR PATENTS:

An Information Disclosure Statement was filed on October 29, 2003 (19 references). A copy of this Information Disclosure Statement is enclosed. Applicants have not received this Examiner-initialed statement. Applicants respectfully request that the Examiner provide the Examiner-initialed Information Disclosure Statement indicating that the references have been considered by the Examiner.

Respectfully submitted,

CHRISTENSEN O'CONNOR
JOHNSON KINDNESS^{PLLC}

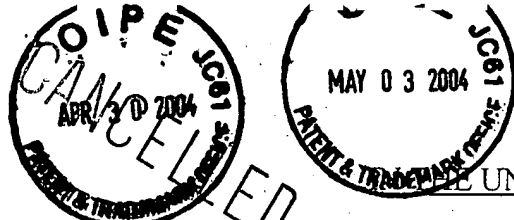
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I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below date:

Date: April 30, 2004

GER:md

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

October 29, 2003

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

1. X Copies of the listed patents, publications, and other information are enclosed for the Examiner's use.
2. X Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.
3. X The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.18 which may be required during the entire pendency of the application, or credit any overpayment, to Deposit Account No. 03-1740. This authorization also hereby includes a request for any extensions of time of the appropriate length required upon the filing of any reply during the entire prosecution of this application. A copy of this document is enclosed.

Respectfully submitted,

CHRISTENSEN O'CONNOR
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George E. Renzoni

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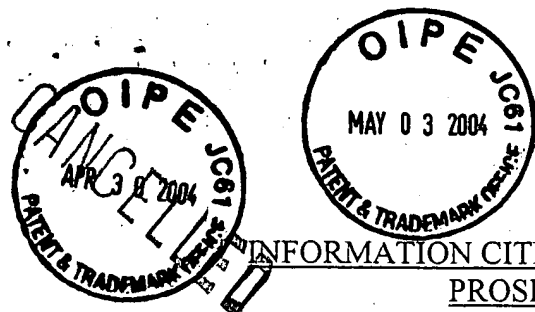
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INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE
PROSECUTION OF THE SUBJECT APPLICATION

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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
_____	U8	5,451,411		09/19/1995	Gombotz et al.
_____	U9	5,770,627		06/23/1998	Inoue et al.
_____	U10	5,998,588		12/07/1999	Hoffman et al.
_____	U11	6,165,509		12/26/2000	Hoffman et al.
_____	U12	6,486,213	B1	11/26/2002	Chen et al.
_____	U13	5,939,453		08/17/1999	Heller et al.
_____	U14	6,210,717	B1	04/03/2001	Choi et al.

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English Abstract Provided	Translation Provided
NONE							

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
_____	O28	Cheung, C.Y., et al., "A pH-Sensitive Polymer That Enhances Cationic Lipid-Mediated Gene Transfer," <i>Bioconjugate Chem.</i> 12:906-910, 2001.
_____	O29	Cordes, E.H., and H.G. Bull, "Mechanism and Catalysis for Hydrolysis of Acetals, Ketals, and Ortho Esters," <i>Chemical Reviews</i> 74(5):581-603, 1974.

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Initial No.

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- _____ O30 Ding, Z., et al., "Synthesis and Purification of Thermally Sensitive Oligomer-Enzyme Conjugates of Poly(*N*-isopropylacrylamide)-Trypsin," *Bioconjugate Chem.* 7:121-125, 1996.
- _____ O31 Feijen J., et al., "Thermosensitive Polymers and Hydrogels Based on N-Isopropylacrylamide," *11th European Conference on Biomaterials*, Pisa, Italy, September 10-14, 1994, pp. 256-260.
- _____ O32 Fife, T.H., and L.K. Jao, "Substituent Effects in Acetal Hydrolysis," *Journal of Organic Chemistry* 30(5):1492-1495, May 1965.
- _____ O33 Hansch, C., and W.R. Glave, "Structure-Activity Relationships in Membrane-Perturbing Agents," *Molecular Pharmacology* 7:337-354, 1971.
- _____ O34 Kratz, F., et al., "Drug-Polymer Conjugates Containing Acid-Cleavable Bonds," *Critical Reviews in Therapeutic Drug Carrier Systems*, 16(3):245-288, 1999.
- _____ O35 Kyriakides, T.R., et al., "pH-Sensitive Polymers That Enhance Intracellular Drug Delivery In Vivo," *Journal of Controlled Release* 78:295-303, 2002.
- _____ O36 Linhardt, J.G., and D.A. Tirrell, "pH-Induced Fusion and Lysis of Phosphatidylcholine Vesicles by the Hydrophobic Polyelectrolyte Poly(2-ethylacrylic Acid)," *Langmuir* 16:122-127, 2000.
- _____ O37 Murthy, N., et al., "The Design and Synthesis of Polymers for Eukaryotic Membrane Disruption," *Journal of Controlled Release* 61:137-143, 1999.
- _____ O38 Schroeder, U.K.O., and D.A. Tirrell, "Structural Reorganization of Phosphatidylcholine Vesicle Membranes by Poly(2-ethylacrylic acid). Influence of the Molecular Weight of the Polymer," *Macromolecules* 22:765-769, 1989.
- _____ O39 Tycko, B., et al., "Rapid Acidification of Endocytic Vesicles Containing Asialoglycoprotein in Cells of a Human Hepatoma Line," *Journal of Cell Biology* 97:1762-1776, 1983 (abstract only).

Examiner

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.

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